AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

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1. (currently amended): An oxygen supply apparatus which supplies oxygen or oxygenenriched gas to a user having a breathing cycle including an inhalation period and an exhalation period synchronously with breathing of the user by means of a breath synchronization function, which comprises:

a sensor for detecting the state of breathing of the user;

means for judging the state of breathing of the user under a predetermined judgment condition when breath-synchronized operation is performed, based on a signal from the sensor; and

means for supplying the oxygen or oxygen-enriched gas to the user over a predetermined period when the state of breathing of the user cannot be accurately determined no breathing is detected.

- 2. (original): The oxygen supply apparatus as claimed in claim 1, which comprises an oxygen cylinder filled with oxygen, or an oxygen enriching apparatus which enriches oxygen contained in air.
- 3. (currently amended): The oxygen supply apparatus as claimed in claim 2, wherein the predetermined judgment condition is such that a period during which the state of breathing of the user cannot be-accurately determined detected is a period corresponding to a breathing rate of 7 times/min or less.

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- 4. (currently amended): The oxygen supply apparatus as claimed in claim 3, wherein the predetermined judgment condition is such that a period during which the state of breathing of the user cannot be accurately determined detected is 8 seconds or longer.
- 5. (original): The oxygen supply apparatus as claimed in claim 1, wherein the predetermined period is a time corresponding to 25 to 40% the length of each breathing cycle at a time when the breathing rate is 5 to 7 times/min.
- 6. (original): The oxygen supply apparatus as claimed in claim 1, wherein the sensor is disposed at an oxygen outlet to which oxygen or oxygen-enriched gas is supplied and is adapted to detect the state of a gas at that position.
- 7. (original): The oxygen supply apparatus as claimed in claim 1, wherein the sensor is disposed at a breath detection port provided separately from an oxygen outlet to which oxygen or oxygen-enriched gas is supplied, and is adapted to detect the state of a gas at that position.
- 8. (original): The oxygen supply apparatus as claimed in claim 1, wherein the sensor is a pressure sensor, a strain gauge sensor, or a piezoelectric sensor.
- 9. (currently amended): The oxygen supply apparatus as claimed in claim 1, wherein the oxygen supply apparatus is an oxygen enriching apparatus;

when the breath-synchronized operation is not performed, the oxygen enriching apparatus supplies the oxygen-enriched gas at a flow rate equal to or less than a continuous base flow rate, which represents a that is the flow rate at which the oxygen enriching apparatus can supply the oxygen-enriched gas continuously; and

when the breath-synchronized operation is performed, the oxygen enriching apparatus supplies the oxygen-enriched gas during the inhalation period of a breathing cycle at a flow rate

greater than the continuous base flow rate and stops supply of the oxygen-enriched gas during the exhalation period of the breathing cycle.

10. (currently amended): The oxygen supply apparatus as claimed in claim 1, wherein the oxygen supply apparatus is an oxygen enriching apparatus; and

when the breath-synchronized operation is performed, the oxygen enriching apparatus supplies the oxygen-enriched gas during the inhalation period of a breathing cycle at a flow rate greater than a continuous base flow rate, which represents a that is the flow rate at which the oxygen enriching apparatus can supply the oxygen-enriched gas continuously, and supplies the oxygen-enriched gas during the exhalation period of a breathing cycle at a flow rate less than the continuous base flow rate.

- 11. (currently amended): The oxygen supply apparatus as claimed in claim 10, wherein when the breath-synchronized operation is not performed, the oxygen enriching apparatus supplies the oxygen-enriched gas at a flow rate equal to or less than a continuous base flow rate, which represents a that is the flow rate at which the oxygen enriching apparatus can supply the oxygen-enriched gas continuously.
- 12. (original): The oxygen supply apparatus as claimed in claim 9, wherein the continuous base flow rate is 4 liters/min or less.
- 13. (original): The oxygen supply apparatus as claimed in claim 10, wherein the continuous base flow rate is 4 liters/min or less.
- 14. (original): The oxygen supply apparatus as claimed in claim 11, wherein the continuous base flow rate is 4 liters/min or less.

AMENDMENT UNDER 37 C.F.R. § 1.111

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- 15. (original): A controller for controlling operation of the oxygen supply apparatus claimed in claim 1.
- 16. (original): A recording medium having recorded thereon means for executing the function of the controller claimed in claim 15.
- 17. (new): The oxygen supply apparatus as claimed in claim 1, wherein oxygen or oxygen-enriched gas is supplied to the user over a period of about four seconds when no breathing is detected.